HP StorageWorks

Edge Switch 2/32 Flexport upgrade instructions



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Edge Switch 2/32 Flexport upgrade instructions

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Preface

About this guide

These installation instructions provide information to help you:

- Install the flexport upgrade kit for the HP StorageWorks Edge Switch 2/32.
- Obtain and configure a required feature key.
- Contact technical support for additional assistance.

Intended audience

This guide is intended for system administrators familiar with:

- Fibre Channel technology
- HP StorageWorks Fibre Channel switches

Related documentation

For a list of corresponding documentation, see the related documents section of the release notes that came with this product.

For the latest information, documentation, and firmware releases, please visit the HP StorageWorks web site: http://h18006.www1.hp.com/storage/saninfrastructure.html.

For information about Fibre Channel standards, visit the Fibre Channel Industry Association web site at http://www.fibrechannel.org [http://www.fibrechannel.org].

Document conventions and symbols

This section identifies the conventions and symbols used in this document.

Table 1 Document conventions

Convention	Element			
Medium blue text: Figure 1	Cross-reference links and e-mail addresses			
Medium blue, underlined text (http://www.hp.com)	Web site addresses			
Bold font	 Key names Text typed into a GUI element, such as into a box GUI elements that are clicked or selected, such as menu and list items, buttons, and check boxes 			
Italics font	Text emphasis			
Monospace font	 File and directory names System output Code Text typed at the command-line 			
Monospace, italic font	Code variables Command-line variables			
Monospace, bold font	Emphasis of file and directory names, system output, code, and text typed at the command line			

△ WARNING!

Indicates that failure to follow directions could result in bodily harm or death.

△ CAUTION:

Indicates that failure to follow directions could result in damage to equipment or data.

NOTE:

Provides additional information.

Getting Help

If you still have a question after reading this guide, contact an HP authorized service provider or access our web site: http://www.hp.com.

HP technical support

Telephone numbers for worldwide technical support are listed on the HP support web site: http://www.hp.com/support.

Collect the following information before calling:

- Technical support registration number (if applicable)
- Product serial numbers
- Product model names and numbers
- Applicable error messages
- Operating system type and revision level
- Detailed, specific questions

MOTE:

For continuous quality improvement, calls may be recorded or monitored.

HP strongly recommends that customers sign up online using the Subscriber's choice web site: http://www.hp.com/go/e-updates.

- Subscribing to this service provides you with e-mail updates on the latest product enhancements, newest versions of drivers, and firmware documentation updates as well as instant access to numerous other product resources.
- After signing up, you can quickly locate your products by selecting Business support and then Storage under Product Category.

HP storage web site

The HP Web site has the latest information on this product, as well as the latest drivers. Access storage at: http://www.hp.com/country/us/eng/prodserv/storage.html. From this web site, select the appropriate product or solution.

HP authorized reseller

For the name of your nearest HP authorized reseller:

- In the United States, call 1-800-345-1518
- In Canada, call 1-800-263-5868
- Elsewhere, see the HP Web site for locations and telephone numbers: http://www.hp.com.

Helpful web sites

For third-party product information, see the following HP web sites:

- http://www.hp.com
- http://www.hp.com/go/storage
- http://www.hp.com/support
- http://www.docs.hp.com

1 Flexport upgrade instructions

These instructions describe how to upgrade the Edge Switch 2/32 by installing the flexport upgrade kit. Each flexport upgrade kit contains:

- Eight small form-factor pluggable (SFP) transceivers.
- These upgrade instructions.
- A transaction code for obtaining a software license key (feature key).

Unpacking and inspecting the SFP transceivers

Unpack and inspect the optics as follows:

- 1. Inspect the shipping container for damage caused during transit. If a container is damaged, ensure that a representative from the freight carrier is present when the container is opened.
- Unpack the shipping container and inspect each item for damage. Ensure that all items listed on the enclosed bill of materials are included in the container.
- If any items are damaged or missing, contact a Hewlett-Packard authorized service provider or reseller.

Upgrading the Edge Switch 2/32

This section describes how to upgrade the Edge Switch 2/32 from 16 to 24 ports and from 24 to 32 ports. When you receive the switch, ports 0 through 15 of the Edge Switch 2/32 are populated (Figure 1, reference 3).

Upgrading to 24 ports

To upgrade to 24 ports:

Insert eight new SFP transceivers into ports 16 through 23 (Figure 1, reference ❷).
 Ports 0 through 23 are now populated.



Figure 1 Edge Switch 2/32 port locations

2. If you have additional ports to upgrade, continue with "Upgrading to 32 ports" on page 12. If you have no additional ports to upgrade, go to "Obtaining a feature key" on page 12.

Upgrading to 32 ports

To upgrade to 32 ports:

- 1. Perform the procedure for "Upgrading to 24 ports" on page 11.
- Insert eight new SFP transceivers into ports 24 through 31 (Figure 1, reference ●).
 Ports 0 through 31 are now populated.

If you need to configure feature keys, see "Obtaining a feature key" on page 12.

Feature keys

A flexport technology switch is delivered at a discount with only four ports enabled. You can purchase the following additional feature:

 Flexport technology—This feature allows you to add additional port capacity by enabling the remaining ports (in eight-port increments).

After purchasing a feature you will need a feature key to turn on the software. A feature key has the following characteristics:

- It is an alphanumeric string consisting of both uppercase and lowercase characters.
- The total number of characters may vary.
- The key is case sensitive and you must enter it exactly, including the dashes.
 The following is an example of the format of a feature key: XXXX-XXXX-XXXX-XXX.

You can obtain the required feature key by following the instructions in "Obtaining a feature key" on page 12.

Obtaining a feature key

To obtain a feature key:

- 1. Complete the information requested on the HP StorageWorks Fibre Channel switches entitlement certificate for firmware features.
 - This certificate is included in the flexport upgrade kit.
- 2. Provide the information on the certificate to the Hewlett-Packard Authorization Center using one of the following methods described in Table 2:

Table 2 Methods of contacting the HP Authorization Center

	Call the HP Authorization Center	Fax the completed certificate	E-mail the completed certificate
World Wide Web (24 x 7)	www.webkey.externo	ıl.hp.com	
US & Canada 0600–1800 U.S. MST, M-F	(801) 431- 1451(800) 861-2979	(801) 431-3654	Americas_pass- word@cnd.hp.com
Europe 0900–1800 Netherlands local time, M-F	+31-555-384-210	+31-555-434-645	Europe_pass- word@cnd.hp.com
Asia 0600–1700 Japan local time, M-F	+81-03-3227- 5289+81-3-3227- 5289 (outside Japan)	+81-03-3227- 5289+81-3-3227- 5238 (outside Japan)	Asia_password@cnd.hp.com

The Hewlett-Packard Authorization Center will deliver the unique feature key to you by the same method you use to send your information to the Authorization Center. For example, if you send your information by e-mail, the Authorization Center will send the feature key to you by e-mail.

MOTE:

Feature keys are encoded to work with the serial number of the installed switch only. Record the key in case you need to re-install the feature.

3. If the switch fails and must be replaced, obtain new feature keys from the HP Authorization Center using the methods described in Table 2. Please have the serial numbers of the failed and replacement switches.

Installing a feature key

The feature key is entered using HAFM, Embedded Web Server (EWS), or the command line interface (CLI).

P NOTE:

To use CLI to configure a feature key, see the CLI reference guide.

Installing a feature key using HAFM Basic (Embedded Web Server)

After obtaining the feature key, install the feature using EWS as follows:

- Ensure that the browser-capable PC and the Ethernet LAN segment (with the Edge Switch attached)
 are connected.
- 2. At the PC, launch the browser (Netscape Navigator or Internet Explorer).
- At the browser, enter the IP address of the Edge Switch as the internet Uniform Resource Locator (URL).The Enter Network Password dialog box is displayed.
- 4. Enter the user name and password, and then click **OK**.

The Topology view is displayed with status information about each fabric element, including the product to be configured.

Click Switch Details.

The Hardware view is displayed.

Select Configure > Optional Features.

The Maintenance Feature Installation tab (firmware 8.x or later) is displayed (Figure 2).

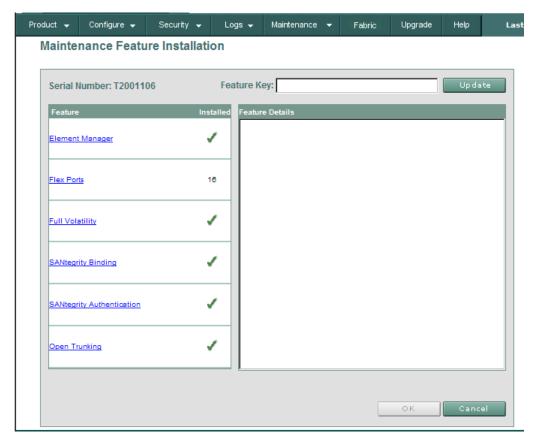


Figure 2 Maintenance Feature Installation tab

7. Enter the feature key in the Feature Key box, and then click **Update**.

A confirmation page contains a warning that this action will override the current set of features on the switch.

8. Click **OK** to activate the new feature key.

The switch performs an IPL when the key is activated and the feature key is installed.

NOTE:

When you select **OK**, all current features are replaced with new features.

9. Back up the configuration data when you are finished configuring the switch.

Installing a feature key using HAFM

After obtaining the feature key, install the feature using HAFM as follows:

- 1. Log in to HAFM and access the Hardware View.
- 2. If your firmware is 04.01.02 or later, proceed to step 3.

or

If your firmware is earlier than 04.01.02, Select **Maintenance** > **Set Offline State** to set the switch offline

The Hardware View is displayed.

3. Select Configure > Features.

The Configure Feature Key dialog box is displayed (Figure 3).



Figure 3 Configure Feature Key dialog box

4. Click New.

The New Feature Key dialog box is displayed (Figure 4).

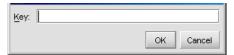


Figure 4 New Feature Key dialog box

5. Enter the feature key and click **OK**.

The Enable Feature Key dialog box is displayed (Figure 5).

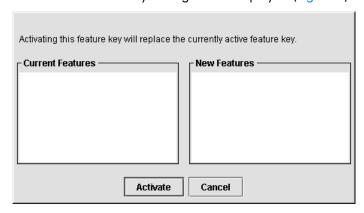


Figure 5 Enable Feature Key dialog box

The Enable Feature Key dialog box contains a warning that this action will override the current set of features on the switch.

All enabled features are listed in the Current Features column. The features that came with the new feature key you are installing are listed in the New Features column. The features that are currently active on the switch are included in the list in the New Features column.

6. Click Activate.

A warning dialog box is displayed (Figure 6).

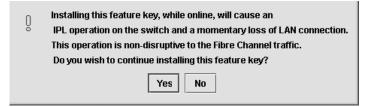


Figure 6 Warning dialog box

7. Click **Yes** to enable the feature key.

When the feature key is enabled, the switch performs an initial program load (IPL), during which the Ethernet connection between the HAFM appliance and switch is momentarily interrupted.

8. If your firmware is 04.01.02 or later, proceed to step 9.

or

If your firmware is earlier than 04.01.02, select **Maintenance > Set Online State** to set the switch online.

9. Back up the configuration data when you are finished configuring the switch.

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